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Fifth Semester B.Arch. Degree Examination, June/July 2017
Building Services – III

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any *TWO* full questions from *Part-A*,
TWO from *Part-B* and *ONE* from *Part-C*.
2. Provide sketches as required.

PART – A

- 1 a. What is cooling load? Explain various components of the cooling load. (12 Marks)
b. What is HVAC? What are the advantages and disadvantages of an air conditioning system? (08 Marks)
- 2 a. Explain window air conditioning system with neat sketches. (10 Marks)
b. List and explain different systems of mechanical ventilation. (10 Marks)
- 3 Write short notes on :
a. Refrigeration cycle
b. A.H.U
c. Zoning
d. Summer Air conditioning (20 Marks)
- 4 a. Explain the role of an architect while providing lift in a building. (10 Marks)
b. Explain quality and quantity of lift services. (10 Marks)
- 5 a. Where and why will you recommend escalators? Explain with a neat sketch the various parts of an escalator. (12 Marks)
b. Draw a typical cross section through a traction elevator and label various parts. (08 Marks)

PART – B

- 6 Write short notes on :
a. Dumb waiter
b. Sky lobby
c. Panoramic Elevator
d. Pneumatic Elevator (20 Marks)
- 7 a. Explain various causes of fire accidents in a building. (08 Marks)
b. List various types of fire extinguishers. Explain any three of them with neat sketches. (12 Marks)
- 8 Write short notes on :
a. Fire load
b. Fire protection for high rise building
c. Fire Alarm System
d. Passive Fire Safety. (20 Marks)

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